

## **ABSTRACT OF THE DISCLOURE**

A moisture-permeable waterproof high density fabric made of polyester filament yarn with filament size of 0.2 ~ 0.8 denier per filament (dpf) and with cross section having at least three grooves or recessions formed as Y-shaped, cross-shaped, or W-shaped cross section, or with cross section arranged as distinctive shape of Y-shaped, cross-shaped, or W-shaped cross section at different section of the filament yarn; the fabric is manufactured by high density weaving method, and processed by water repellent and hot press finish after dyeing processing through which to obtain a moisture-permeable waterproof fabric with property of hydrostatic pressure resistance higher than 700 mm H<sub>2</sub>O and wash ability better than that of the conventional woven fabric made of polyester filament yarn having round cross section, as well as better reproducibility without the need of coating or laminating processing.